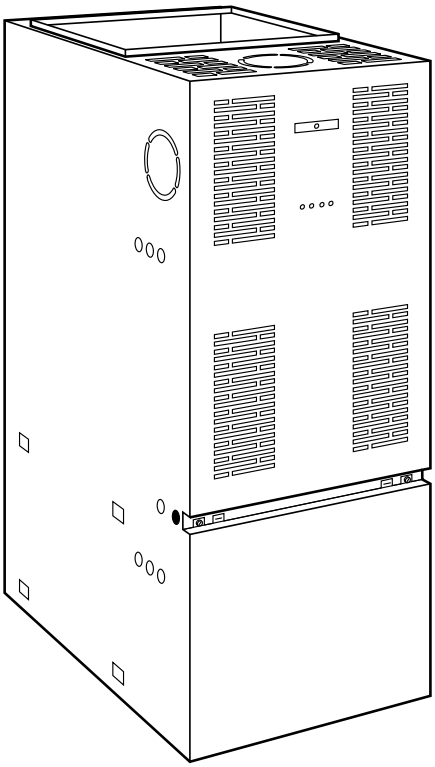
bryant
Heating & Cooling Systems

MULTIPOISE
OIL FURNACE

369AAN
Sizes 105 and 120
Series B



The model 369AAN combines high efficiency and quiet operation with the latest in oil heating technology. The 369AAN is available in 2 sizes, each size allows for 3 possible input capacities by a simple nozzle change. The furnace design is a multipoise style for upflow, downflow, and horizontal applications. The components of the 369AAN are the best available. The 369AAN features a Beckett oil burner and a Honeywell ignition control and fan timer control. The 369AAN is among the most efficient and quietest oil furnaces available and will provide years of quality service. As with other Bryant furnaces, this model is designed to work as part of a total home comfort system which includes elements for cooling, air cleaning, humidification, ventilation, and zoning.

FEATURES

Multipoise—This multipoise unit may be installed in the upflow, downflow, or horizontal right/left positions with very few modifications to change from 1 position to another.

The model 369AAN is available in 2 sizes. Each size unit is capable of 3 heat/airflow combinations by a simple nozzle change. Unit 036105 covers inputs of 70,000, 91,000 and 105,000 Btuh, and unit 060120 covers inputs of 119,000, 140,000 and 154,000 Btuh. This eliminates the need to stock 6 separate units.

Venting—The 369AAN unit may be vented using Type L vent material and a factory-approved or masonry chimney. It may also be sidewall vented with an approved power venter.

Combustion Chamber/Heat Exchanger—The unique combination combustion chamber/heat exchanger is made of stainless and aluminized steel for durability and long life. Its heat transfer properties make it energy efficient. All seams are tightly welded for leak-free operation.

Warranties—Limited Lifetime Warranty on combustion chamber/heat exchanger assembly. Five-year Warranty on Beckett burner. Two-year Warranty on Honeywell ignition control. One year on entire furnace. Contact your dealer for details.

Beckett Oil Burner and Honeywell Controls—High quality industry standard Beckett oil burner allows safe and efficient combustion of oil. Honeywell ignition control and fan timer control provide for reliable operation and easy connection of thermostat and accessory wiring.

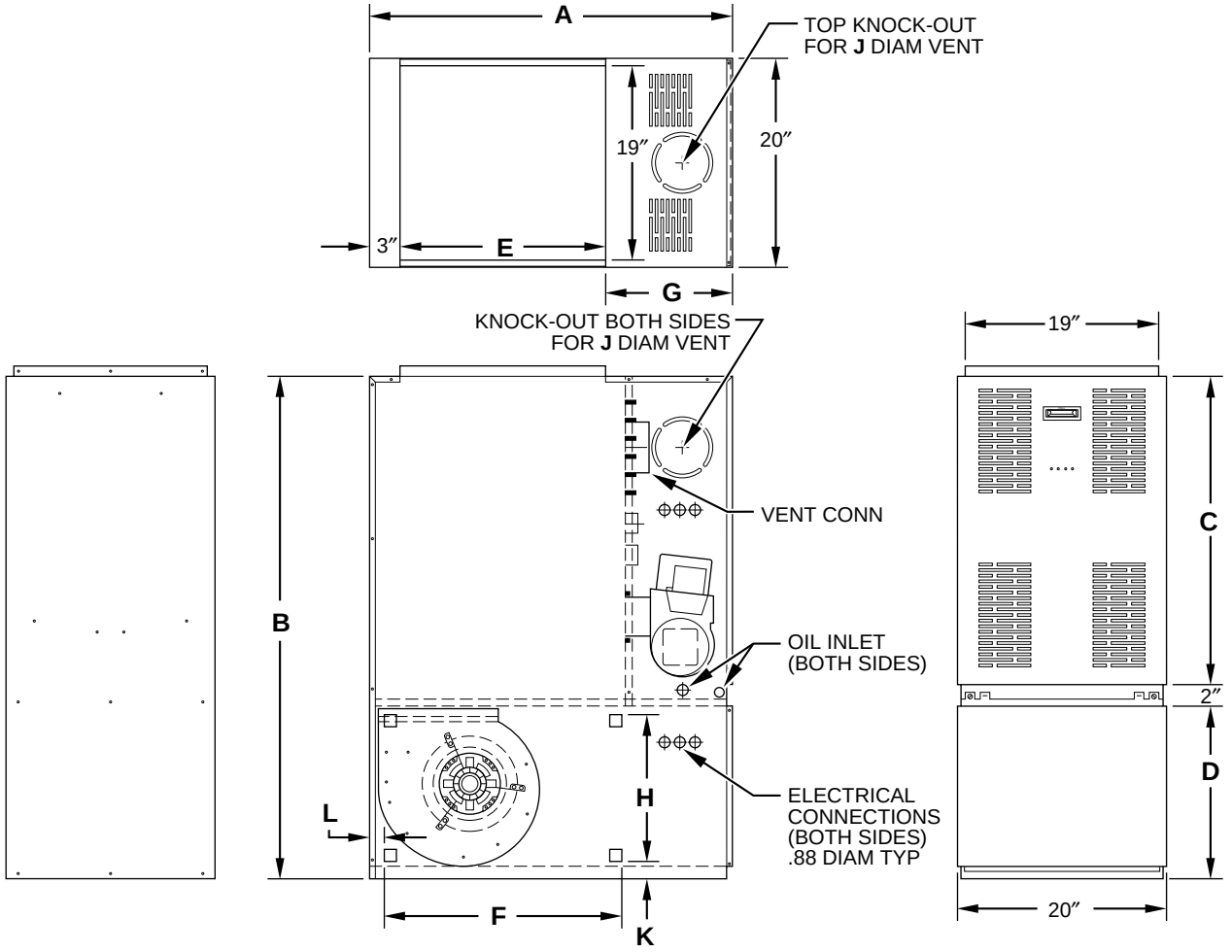
Casing—Made of 20 gage powder painted steel for years of durability and attractiveness. The cabinet features a reversible door for ease of service access.

Insulation and Sound Reduction—A unique silencer along with insulated walls and rubber blower mounts efficiently controls combustion noise and vibrations and makes this unit 1 of the quietest on the market.

Adjustable Blower Speed—Four-speed blower for precise airflow selection of heating or cooling operation.

Constant Low-Speed Blower Switch—Allows continual low-speed air circulation through the home to maximize comfort while maintaining efficiency. Air is constantly filtered and stagnant air is reduced.

Certifications—The 369AAN is UL and ULC certified. The efficiency rating is GAMA certified.



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DIMENSIONS (IN.)

UNIT SIZE	A	B	C	D	E	F	G	H	J	K	L
036105	35	48-3/4	31-1/4	16-5/8	20	22	12	14	5	1-1/2	1-3/4
060120	39-1/2	53	33-1/4	18-3/4	24	28	12-9/32	16	6	1-5/8	1-1/2

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (In.)

UNIT APPLICATION		UPFLOW	DOWNFLOW	HORIZONTAL
SIDES	Furnace	0	2	2
	Supply Plenum and Warm-Air Duct Within 6 ft of Furnace	1	2	1
BACK	Furnace	0	1	0
TOP	Furnace Casing or Plenum	2	2	2
	Horizontal Warm-Air Duct Within 6 ft of Furnace	2	2	3
BOTTOM	Furnace	0	0*	0*
FLUE PIPE	Horizontally or Below Pipe	4	4	4
	Vertically Above Pipe	9	9	9
FRONT		8	8	24

* For combustible floor, use approved accessory subbase.

NOTE: Adequate service clearance should be provided over and above these dimensions as required.

SPECIFICATIONS

UNIT SIZE		036105			060120		
SHIPPING WEIGHT (Lb)		230			275		
RATINGS AND PERFORMANCE							
Input Btuh		70,000	91,000	105,000	119,000	140,000	154,000
Output Capacity*	Nonweatherized ICS	57,000	74,000	85,000	99,000	115,000	126,000
Nozzle—100 psig Pump Pressure		0.50—70W	0.65—70W	0.75—70B	0.85—70B	1.00—70W	1.10—70W
Firing Rate (GPH)		0.50	0.65	0.75	0.85	1.00	1.10
AFUE%* (Upflow, Horizontal/Downflow)	Nonweatherized ICS	80.7/81.5	80.7/81.5	80.7/81.5	81.5/81.0	81.5/81.0	81.5/81.0
Certified Temperature Rise Range °F		55—85	55—85	55—85	55—85	55—85	55—85
Recommended Heating Blower Speed		Med-Low	Med-High	High	Med-Low	Med-High	High
Heating CFM @ 0.2-in. wc Static Pressure		840	1130	1425	1555	1890	2080
Cooling CFM @ 0.5-in. wc Static Pressure		1250	1250	1250	1865	1865	1865
ELECTRICAL							
Unit Volts—Hertz—Phase		115—60—1					
Operating Voltage Range Minimum—Maximum†		104—132					
Maximum Unit Amps		12.2			15.7		
Minimum Wire Size (AWG)		14					
Maximum Wire Length (Ft)‡		26					
Maximum Fuse or Ckt Bkr Amps**		15			20		
Transformer (24v)		40va					
External Control	Heating	40va					
Power Available	Cooling	30va					
Air Conditioning Blower Relay		Standard					
BURNER AND CONTROLS							
Burner Model (3450 RPM)‡‡		Beckett AFG-F3			Beckett AFG-F3		Beckett AFG-F6
Oil Pump Stages		1					
Ignition Control		Continuous					
Heating Blower Control (Off Delay)		Selectable 60, 90, 120, or 150 Sec					
BLOWER DATA							
Direct-Drive Motor HP (PSC)		1/3			3/4		
Motor Full Load Amps		6.2			9.5		
RPM (Nominal)—Speeds		1075—4					
Blower Wheel Diameter X Width (In.)		10 X 10			12 X 10		
Filter Size (In.)—Disposable (Field Supplied)		16 X 24 or 25 X 1			20 X 30 X 1		
FACTORY-AUTHORIZED AND LISTED, DEALER-INSTALLED OPTIONS							
Electronic Air Cleaner		AIRA					
Mechanical Air Cleaner		902B					
Air Cleaner Cabinet		KEACA					
Humidifier		Model 912D, 912E, 913B, 913C, or 914A					
Heat Recovery Ventilator		Model VA3B, VB5B, or VC5B					
Energy Recovery Ventilator		Model VL3A					
Thermostat—Non-Programmable		For Use with 1-Speed Air Conditioner—TSTATBHNAC01-A For Use with 2-Speed Air Conditioner—TSTATBHN2S01-A For Use with 2-Speed Heat Pump—TSTATBHN2S01-A					
Thermostat—Programmable		For Use with 1-Speed Air Conditioner—TSTATBHPAC01-A For Use with 2-Speed Air Conditioner—TSTATBHP2S01-A For Use with 1-Speed Heat Pump—TSTATBHPDF01-A For Use with 2-Speed Heat Pump—TSTATBHP2S01-A or TSTATBHPDF01-A					
Zoning—2-Zone		ZONEKIT2ZBDP, ZONEBB2KIT01					
Zoning—4-Zone		ZONEBB4KIT01					
Zoning—8-Zone		ZONEBB8KIT01					
Downflow Conversion/Vent Guard Kit****		KLADC0101DET/KLADC0201DET					
Downflow Subbase Kit***		KLASB0601DET					
Horizontal Subbase Kit***		KLASB0701DET					
Oil Nozzle Kit††	(QTY-50)	For 70,000 Btuh — KLANZ0150050					
Oil Nozzle Kit††	(QTY-50)	For 91,000 Btuh — KLANZ0250065					
Oil Nozzle Kit††	(QTY-50)	For 105,000 Btuh — KLANZ0350075					
Oil Nozzle Kit†††	(QTY-50)	For 120,000 Btuh — KLANZ0450085					
Oil Nozzle Kit†††	(QTY-50)	For 140,000 Btuh — KLANZ0550100					
Oil Nozzle Kit†††	(QTY-50)	For 154,000 Btuh — KLANZ0650110					

* Capacity and AFUE in accordance with U.S. Government DOE test procedures.
† Permissible voltage limits for proper furnace operation.
†† For unit 036105.
††† For unit 060120.
‡ Length shown is measured 1 way along wire path between unit and service panel for maximum 2% voltage drop.
‡‡ Beckett AFG-F6 requires field supplied and replacement burner firing head.
** Time-delay fuse recommended.
*** Required for combustible floors.
**** Required for downflow operation.
ICS—Isolated Combustion System
PSC—Permanent Split Capacitor

As Factory Shipped.

AIR DELIVERY—CFM (With Filter)

UNIT SIZE	BLOWER SPEED	EXTERNAL STATIC PRESSURE IN. WC							
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
036070 036091 036105	High	1425	1350	1305	1250	1170	1030	925	805
	Med-High	1130	1045	1000	950	885	820	745	670
	Med-Low	840	810	770	740	685	635	580	500
	Low	725	730	740	745	730	715	690	665
060120 060140 060155	High	2080	2040	1965	1865	1700	1575	1475	1335
	Med-High	1890	1860	1770	1675	1550	1450	1330	1215
	Med-Low	1555	1475	1395	1320	1210	1135	1050	940
	Low	1220	1165	1080	1000	925	855	780	655

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

A large selection of product, theory, and skills programs is available, using popular video-based formats and materials. All include video and/or slides, plus companion book.

Classroom Service Training plus "hands-on" the products in our labs can mean increased confidence that really pays dividends in faster troubleshooting, fewer callbacks. Course descriptions and schedules are in our catalog.

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 369A.105.1

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